

I/WE CLAIM:

1. An interconnection shape for a mower blade having a longitudinal axis and a central drive hole for use with a rotating shaft having a key shape,
 5 the key shape having at least two key slots, all of the key slots directly interconnecting the shaft to the blade passing substantially equal torque therebetween respectively, the key slots extending outward off of the drive hole, the key slots having center lines; and,
 the center lines of the key slots being located at an angle of greater than 45
 10 degrees to a reference line running through the center of the drive hole perpendicular to the longitudinal axis of the mower blade with no active key slot having an angle of less than 45 degrees, wherein the interconnection shape has a rectangular profile corresponding to the key shape of the rotary shaft.
- 15 2. The interconnection shape of claim 1, wherein the key shape has at least four key slots.
3. The interconnection shape of claim 2 further comprising:
 the key slots having straight side profiles, wherein the side profiles being angled
 20 at an angle of 15-25 degrees in respect to the center line of the respective key slot.
4. The interconnection shape of claim 1, wherein the center lines of at least two adjacent key slots being located at an angle of greater than 90 degrees with respect to each other, wherein the interconnection shape has a rectangular profile corresponding to the key shape of the
 25 rotary shaft.
5. The interconnection shape of claim 1 further comprising:
 a leading and a trailing edge;
 wherein the key shape having a generally rectangular profile drive hole;

the key slots being spaced from the nearest edge of the mower blade by a certain first distance;

the generally rectangular profile drive hole being spaced from the nearest edge of the mower blade by a second distance; and,

5 wherein the second distance being less than the certain first distance.

6. The interconnection shape of claim 5 further comprising:

the key slots having center lines, wherein the center lines of the key slots being located at an angle of greater than 45 degrees to a reference line running through the center of the drive hole perpendicular to the longitudinal axis of the mower blade; and,

10 the key slots having straight side profiles, wherein the side profiles being angled at an angle of 15-25 degrees with respect to the center line of the respective key slot.

7. An interconnection shape for a mower blade having a longitudinal axis and a central drive hole for use with a rotating shaft having a key shape, the interconnection shape comprising:

at least four key slots, wherein the key slots directly interconnecting the shaft to the blade passing substantially equal torque therebetween respectively, the key slots extending outward off of the drive hole symmetrically in first and second pairs on opposing sides of the central drive hole, the key slots having center lines respectively;

the center lines of the first pair of key slots being angled with respect to each other at substantially 60 degrees, and the center lines of the second pair of key slots being angled in respect to each other at substantially 60 degrees; and,

25 wherein the interconnection shape has a rectangular profile corresponding to the key shape of the rotary shaft.

8. The interconnection shape of claim 7, wherein the center lines of the at least four key slots each form an angle of substantially 30 degrees with respect to the longitudinal axis of the mower blade;

the key slots have straight side profiles, and the side profiles being angled at an angle of 15-25 degrees with respect to the center line of the respective key slot.

9. An improved drive connection for a mowing spindle having an end and a mowing
5 blade having a hole, the improvement comprising the end of the spindle and the hole in the
mowing blade having a series of outwardly extending teeth, the outwardly extending teeth each
having a center line and a straight edge, the straight edges each being angled in respect to its the
center line respectively at an angle of substantially 20 degrees, and the center line being angled
in respect to each other at substantially 60 degrees or a multiple thereof and wherein the drive
10 connection has a hexagonal profile corresponding to the spindle.

10. The drive connection claim 9 further comprising:
the outward extending teeth having a further straight edge, wherein the further
straight edges each being angled in respect to its center line respectively at an angle of
15 substantially 20 degrees; and,
wherein the longitudinal height of the teeth being substantially 0.40 of the
diameter of the hole.

11. The drive connection of claim 10 further comprising:
20 an outer flange, wherein the outer flange being located at the end of the spindle
surrounding the teeth.

12. The drive connection of claim 11 further comprising:
a recessed section, wherein the recessed section being located between the flange
25 and the teeth, and the recessed section being further recessed in respect to the flange.